List of Caves Sampled April and July 2016

Fantastic Caverns -private *- state lead site*
Bridal Cave -private
Cathedral -State
Fisher -State
Onandoga -State
Ozark Caverns -State

All caves <6ug/m3 TCE in April
Fantastic Caverns 61 and 88 ug/m3 TCE in July

Pending work to coordinate

Fantastic Caverns:
   Agreement on risk evaluation, next sampling, response actions
   Authority for using 6 ug/m3 ? Why OSHA uses different factors ?

Five other caves <6 ug/m3 April and July:
   Stop sampling now ? Is four quarters required ?

Continental Cleaners:
   Risk evaluation unused rooms/workspaces, future use building,
   future sampling vs covenant

Fantastic Caverns

- Litton Systems (Northrop-Grumman) MDNR cooperative order
- Calling this site Litton Systems, avoid stigma Superfund site naming
- MDHSS recommends MDNR re-sample in August, then backpacks
- Northrop-Grumman take over lead under MDNR oversight
- April 24-hr sampling; July 8-hr sampling and 14-day passive sampling

EPA risk evaluation and recommendation supporting ?
EPA-lead transition if needed

Five other caves

- Bridal, Cathedral, Fisher, Onandaga, Ozark Caverns
- MDHSS has recommended total four quarter sampling, Oct & Jan
- State Parks closed January, no exposure
- Are four quarters <u>always</u> recommended if <6 ug/m3 ?

EPA support 3 or 4 quarter sampling, NFA ?

Continental Cleaners

- Tracking situations with high subslab
- Tracking situations with future use plans
- Covenants, Notices, Re-Assessment intervals
- Proactive resolution, negotiating solutions,
  future sampling costs, future risk and tracking

EPA current risk recommendation? Removal ?
Future risk tracking

Work products

- Statement legal authority action levels and OSHA difference
- Fantastic Caverns risk review and recommendation (Aug 29 data?)
- Continental Cleaners risk review and recommendation
- Agreement on other five caves, 3-4 quarter results
- Stance on four quarter sampling as universal minimum approach
- Tracking approach for sites without permanent fixes